

The following is a list of all claim in the Application with their status and the text of all active Claims.

5 We Claim:

1. (Currently Amended) An arrangement for charging a power module,
comprising:

a power module including one or more ultracapacitors;

10 an energy source connected to said power module, a positive terminal
of said energy source connected to a positive terminal of said power
module, and a negative terminal of said energy source connected to a
negative terminal of said power module; and

15 a control circuit adapted to provide a higher current level to said
power module than output by said energy source for at least a portion of a
charging period, said control circuit being adapted to provide a current level
through said power module greater than a current level from said energy
source during at least a portion of a charging period, wherein said control
circuit is adapted to maintain a constant power level at the power module
as a voltage level across the power module increases.

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2. (Canceled)

3. (Original) The arrangement according to Claim 1, wherein said control
circuit includes pulse-width modulator and an inductor connected in series
25 with said power module.

4. (Original) The arrangement according to Claim 3, wherein said pulse-width
modulator controls a charge level of said inductor.

5. (Original) The arrangement according to Claim 4, wherein said charge level corresponds to a current level which is in accordance with a desired power level at said power module and an instantaneous voltage level across said power module.
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6. (Original) The arrangement according to Claim 3, wherein said inductor is adapted to limit a current level through said power module to a predetermined peak level.
- 10 7. (Canceled)
8. (Previously Presented) A constant-power charging circuit for an ultracapacitor power module, comprising:
- 15 a pulse-width modulator; and
- an inductor connected in series with said pulse-width modulator and said power module;
- wherein said pulse-width modulator is adapted to control the charge level of said inductor, and wherein a control circuit is adapted to provide a current level through said power module greater than a current level from
- 20 an energy source during at least a portion of a charging period.
9. (Original) The circuit according to Claim 8, wherein said charge level corresponds to a current level which is in accordance with a desired power level at said power module and an instantaneous voltage level across said
- 25 power module.
10. (Original) The arrangement according to Claim 8, wherein said inductor is adapted to limit a current level through said power module to a predetermined peak level.
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11. (Original) The arrangement according to Claim 8, wherein said control circuit is adapted to provide a current level through said power module greater than a current level from said energy source during at least a portion of a charging period.
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12. (Currently Amended) A method of charging an ultracapacitor power module, comprising:
- charging an inductor connected in series between an energy source and said power module; and
- 10 controlling a charge level of said inductor to achieve a desired current level through said power module, said desired current level through said power module being greater than a current level from said energy source during at least a portion of a charging period, wherein a power level to said power module is kept constant during charging of said power module.
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13. (Original) The method according to Claim 12, wherein said controlling includes modulating the current from said energy source to said inductor through a pulse-width modulator.
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14. (Original) The method according to Claim 12, wherein said desired current level corresponds to a desired power level at said power module.
15. (Canceled)
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16. (Canceled)